

US EPA RECORDS CENTER REGION 5



466243

ACS
46518
File E.1

FIELD OVERSIGHT SUMMARY REPORT
American Chemical Services, Inc.
Griffith, Indiana

September 13, 1999



BLACK & VEATCH
SPECIAL PROJECTS CORP.

101 North Wacker Drive, Suite 1100, Chicago, Illinois 60606, (312) 346-3775

U.S.EPA
American Chemical Service Inc.

BVSPC Project 46518
BVSPC File C.3
September 24, 1999

Mr. Kevin Adler
Remedial Project Manager
U.S. Environmental Protection Agency
Region V, SR-J6
77 West Jackson Boulevard
Chicago, IL 60604-3590

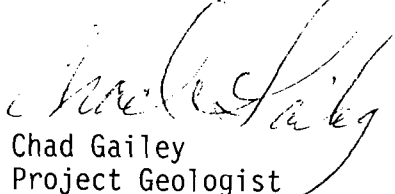
Subject: Field Summary Report

Dear Mr. Adler:

Enclosed is a copy of the quarterly groundwater sampling field oversight summary report for your review. Quarterly sampling took place during the week of September 13, 1999, at the American Chemical Services Superfund site in Griffith, Indiana. Please call me at 312/683-7857 if you have any questions.

Sincerely,

BLACK & VEATCH SPECIAL PROJECTS CORP.


Chad Gailey
Project Geologist

ctg
Enclosures

cc: S. Mrkvicka, BVSPC w/enclosures

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USEPA/ARCS V
BVSPC Oversight Summary

Reporting Period September 13, 1999 Hours Worked: 46
Site Name/Location: ACS/Griffith, IN BVSPC Project No.: 46518.238
USEPA Work Assignment Manager: Kevin Adler, RPM Site
Manager: Steve Mrkvicka

Personnel Summary Affiliation	No. of Personnel	Responsibility
Lee Orsorz, Montgomery Watson, Addison, IL	1	Respondent's General Contractor
Dawn Dougher, Chad Smith, Montgomery-Watson, Addison, IL	2	Field Sampling Crew (for quarterly groundwater sampling)
Chad Gailey, Black & Veatch Special Projects Corp, (BVSPC)	1	USEPA Oversight Contractor

Summary of field activities:

During the week of September 13, 1999, Montgomery Watson conducted quarterly groundwater sampling at the American Chemical Services (ACS) Site. One Montgomery Watson field sampling crew was assembled to collect samples from residential wells and monitoring wells that lie north and south of the ACS facility. BVSPC's one-man crew conducted oversight of the field activities to ensure that proper sampling techniques were conducted. The specified operating procedure (SOP) for low flow groundwater sampling was adhered to by the sampling team. The BVSPC representative was tasked to collect split samples if the sampling technique differed from the SOP. BVSPC oversaw Montgomery Watson's sample paperwork procedures and decontamination set-up and routine.

Montgomery Watson collected 9 groundwater samples, and duplicate samples, matrix spike/matrix spike duplicate (MS/MSD) samples, and field equipment rinsate blanks. The monitoring wells sampled by Montgomery Watson are listed in the field logbook notes, which are attached to this report. Montgomery Watson used the low flow sampling technique and monitored for stability of the following groundwater parameters: pH, specific conductance, and temperature. Groundwater turbidity was also monitored and samples were collected when turbidity was 10 NTU's or less.

One equipment rinsate blank was collected by Montgomery Watson to ensure that proper decontamination procedures yielded clean sampling equipment.

Three problems were noted by BVSPC. BVSPC noted problems with the tubing used to pump and sample. The tubing was difficult to handle. Numerous kinks were created that hindered flow. Montgomery Watson dedicated tubing for each well during the March 22, 1999 sampling event. BVSPC recognizes dedicated tubing is an improvement as mentioned in the June oversight summary report, but still would suggest taking the next step with dedicated pumps. BVSPC noted problems with Montgomery Watson's QAPP. The QAPP Montgomery Watson had on site was a revised QAPP that had not received EPA approval. BVSPC noted during final paper work residential well 1033 Reder Rd. was not sampled for cyanide. The cyanide bottle was found after the sampling was completed. Access was attempted later that same day without success.

During the week of August 12 and September 9, 1999, Montgomery Watson conducted Oxygen Releasing Compound (ORC) sampling for natural attenuation in the area north of the ACS site. Montgomery Watson's field crew consisted of Rudy Stein and Scott Sherman on August 12, and Rudy Stein on September 9, 1999. BVSPC conducted oversight to ensure proper field procedures were followed. The work plan presented by Montgomery Watson was adhered to by all field members. A copy of the field logbook notes are attached.

Signature: Chad Gailey

Date: September 24, 1999



Site: American Chemical Services, Inc.
 Proj. #: 46517/46518
 Roll: 3 Photo #:2
 Date: 09-14-99 Time: 08:41
 Photographer: Chad Gailey
 Description: Photo facing east at water
 treatment Bld. of Dawn and Chad
 labeling the field blank.



Site: American Chemical Services, Inc.
 Proj. #: 46517/46518
 Roll: 3 Photo #:3
 Date: 09-14-99 Time: 10:12
 Photographer: Chad Gailey
 Description: Photo facing north at 1029 reder
 Rd. of Dawn Dougher taking
 groundwater parameters.



Site: American Chemical Services, Inc.
 Proj. #: 46517/46518
 Roll: 3 Photo #:4
 Date: 09-14-99 Time: 10:26
 Photographer: Chad Gailey
 Description: Photo facing north at 1029 Reder
 Rd. of Dawn Dougher filling a
 VOA for VOC analysis.

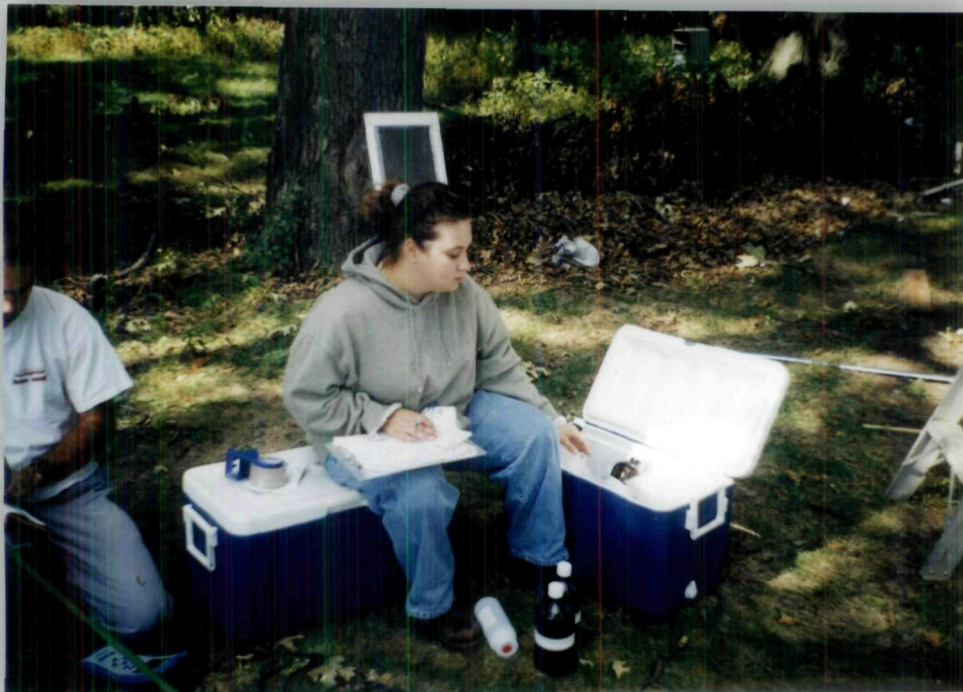
Site: American Chemical Services, Inc.
 Proj. #: 46517/46518
 Roll: 3 Photo #:5
 Date: 09-14-99 Time: 10:56
 Photographer: Chad Gailey
 Description: Photo facing northeast at 1009
 Reder Rd. of Chad Smith taking
 groundwater parameters.



Site: American Chemical Services, Inc.
 Proj. #: 46517/46518
 Roll: 3 Photo #:6
 Date: 09-14-99 Time: 11:10
 Photographer: Chad Gailey
 Description: Photo facing north at 1009 Reder
 Rd. of Chad Smith filling a VOA
 bottle.



Site: American Chemical Services, Inc.
 Proj. #: 46517/46518
 Roll: 3 Photo #:7
 Date: 09-14-99 Time: 11:47
 Photographer: Chad Gailey
 Description: Photo facing southeast at 1033
 Reder Rd. of Dawn take
 groundwater parameters.



Site: American Chemical Services, Inc.

Proj. #: 46517/46518

Roll: 3 Photo #:9

Date: 09-14-99 Time: 14:30

Photographer: Chad Gailey

Description: Photo facing north at 1007 Reder Rd. of Dawn Dougher filling out sample labels.



Site: American Chemical Services, Inc.

Proj. #: 46517/46518

Roll: 3 Photo #:10

Date: 09-14-99 Time: 14:50

Photographer: Chad Gailey

Description: Photo facing southeast at 1007 reder, of Chad Smith fill a poly for total metals.



Site: American Chemical Services, Inc.
 Proj. #: 46517/46518
 Roll: 3 Photo #:11
 Date: 09-14-99 Time: 16:45
 Photographer: Chad Gailey
 Description: Photo facing southwest at 1002
 Reder Rd of Dawn Dougher
 filling a VOA bottle.



Site: American Chemical Services, Inc.
 Proj. #: 46517/46518
 Roll: 3 Photo #:12
 Date: 09-14-99 Time: 16:47
 Photographer: Chad Gailey
 Description: Photo facing southwest at 1002
 Reder Rd. of Dawn Dougher
 filling an amber for Semi-
 volitales.



Site: American Chemical Services, Inc.

Proj. #: 46517/46518

Roll: 3 Photo #:13

Date: 09-15-99 Time: 08:05

Photographer: Chad Gailey

Description: Photo facing southwest at MW-48 of Chad Smith and Dawn dougher installing the pump in the well.



Site: American Chemical Services, Inc.

Proj. #: 46517/46518

Roll: 3 Photo #:14

Date: 09-15-99 Time: 09:00

Photographer: Chad Gailey

Description: Photo facing northwest at MW-48 of Dawn Dougher filling a VOA bottle.



Site: American Chemical Services, Inc.
 Proj. #: 46517/46518
 Roll: 3 Photo #:15
 Date: 09-15-99 Time: 10:07
 Photographer: Chad Gailey
 Description: Photo facing northwest at MW-49
 of Chad Smith measuring flow
 rate.



Site: American Chemical Services, Inc.
 Proj. #: 46517/46518
 Roll: 3 Photo #:16
 Date: 09-15-99 Time: 10:23
 Photographer: Chad Gailey
 Description: Photo facing northwest at MW-49
 of Dawn Dougher filling a VOA
 bottle.



Site: American Chemical Services, Inc.
 Proj. #: 46517/46518
 Roll: 3 Photo #:17
 Date: 09-15-99 Time: 12:45
 Photographer: Chad Gailey
 Description: Photo facing northwest at MW-10C of Chad Smith and Dawn Dougher installing the pump in the well.



Site: American Chemical Services, Inc.
 Proj. #: 46517/46518
 Roll: 3 Photo #:18
 Date: 09-15-99 Time: 13:17
 Photographer: Chad Gailey
 Description: Photo facing northwest at MW-10C of Dawn Dougher filling a VOA bottle

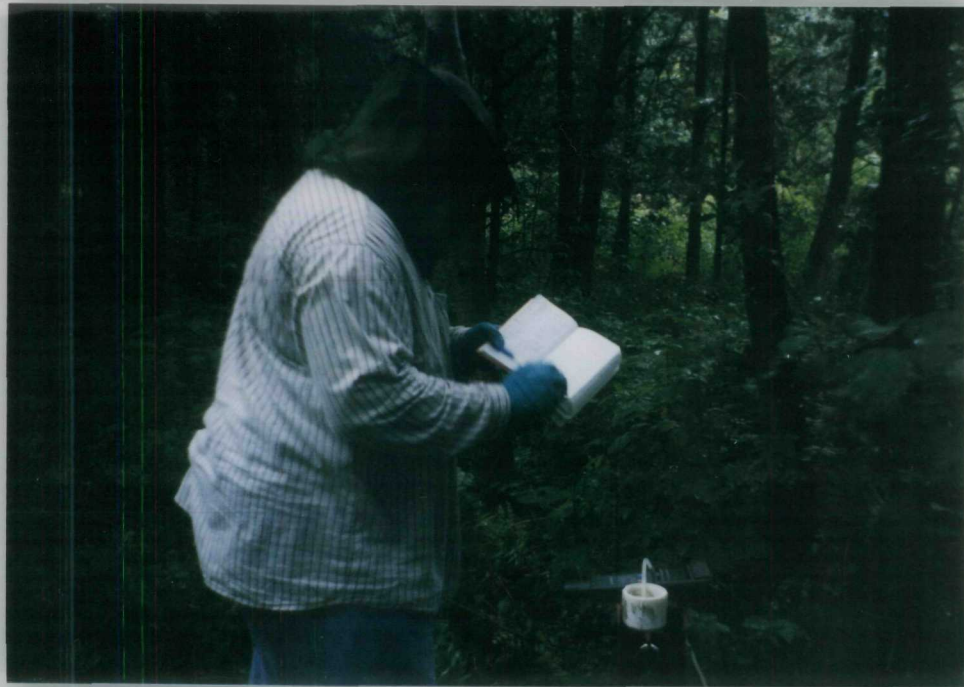


Site: American Chemical Services, Inc.
 Proj. #: 46517/46518
 Roll: 3 Photo #:19
 Date: 09-15-99 Time: 14:12
 Photographer: Chad Gailey
 Description: Photo facing north at MW-9R of
 Dawn Dougher and Chad Smith
 installing a the pump in to the
 well.



Site: American Chemical Services, Inc.
 Proj. #: 46517/46518
 Roll: 3 Photo #:20
 Date: 09-15-99 Time: 16:41
 Photographer: Chad Gailey
 Description: Photo facing northeast at MW-9R
 of Chad Smith filling a VOA
 bottle.

ORC Sampling Pictures
August 12 and September 9, 1999



Site: American Chemical Services, Inc.

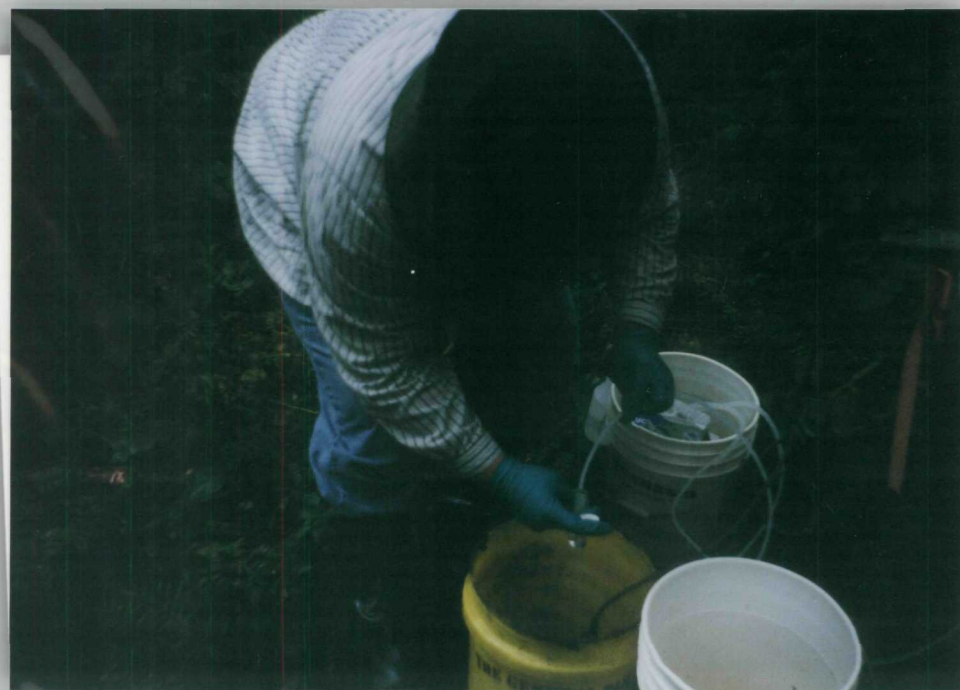
Proj. #: 46517/46518

Roll: 1 Photo #:5

Date: 08-12-99 Time: 10:30

Photographer: Chad Gailey

Description: Photo facing north at ORC well
PZ-6 of Rudey Stein taking water
quality parameters.



Site: American Chemical Services, Inc.

Proj. #: 46517/46518

Roll: 1 Photo #:6

Date: 08-12-99 Time: 11:00

Photographer: Chad Gailey

Description: Photo facing west at ORC well
PZ-6 of Rudey Stein filling a
VOA bottle for natural
attenuation.



Site: American Chemical Services, Inc.
 Proj. #: 46517/46518
 Roll: 1 Photo #: 7
 Date: 08-12-99 Time: 11:10
 Photographer: Chad Gailey
 Description: Photo facing west at ORC well
 PZ-7 of Scott Sherman filling a
 VOA bottle for natural
 attenuation.

Site: American Chemical Services, Inc.
 Proj. #: 46517/46518
 Roll: 1 Photo #: 8
 Date: 08-12-99 Time: 12:10
 Photographer: Chad Gailey
 Description: Photo facing east at ORC well
 PZ-1 of Scott Sherman taking
 groundwater parameters for
 natural attenuation.



Site: American Chemical Services, Inc.

Proj. #: 46517/46518

Roll: 1 Photo #: 9

Date: 08-12-99 Time: 12:35

Photographer: Chad Gailey

Description: Photo facing north at ORC well
PZ-1 of Scott Sherman filling a
VOA bottle for natural
attenuation.

Site: American Chemical Services, Inc.

Proj. #: 46517/46518

Roll: 1 Photo #: 10

Date: 08-12-99 Time: 13:30

Photographer: Chad Gailey

Description: Photo facing north at ORC well
PZ-3 of Rudey Stein filling a
VOA bottle for natural
attenuation.



Site: American Chemical Services, Inc.
 Proj. #: 46517/46518
 Roll: 1 Photo #: 11
 Date: 08-12-99 Time: 14:15
 Photographer: Chad Gailey
 Description: Photo facing northwest at ORC well PZ-4 of Rudey Stein filling a VOA bottle for natural attenuation.



Site: American Chemical Services, Inc.
 Proj. #: 46517/46518
 Roll: 1 Photo #: 12
 Date: 08-12-99 Time: 14:26
 Photographer: Chad Gailey
 Description: Photo facing southeast at ORC well PZ-2 of Scott Sherman taking water levels.



Site: American Chemical Services, Inc.
 Proj. #: 46517/46518
 Roll: 1 Photo #: 13
 Date: 08-12-99 Time: 14:55
 Photographer: Chad Gailey
 Description: Photo facing southeast at ORC well PZ-2 of Rudey Stein filling a VOA bottle for natural attenuation.



Site: American Chemical Services, Inc.
 Proj. #: 46517/46518
 Roll: 2 Photo #: 13
 Date: 09-09-99 Time: 09:00
 Photographer: Chad Gailey
 Description: Photo facing west at PZ-5 of Rudey Stein taking groundwater parameters for ORC sampling.



Site: American Chemical Services, Inc.
 Proj. #: 46517/46518
 Roll: 2 Photo #:14
 Date: 09-09-99 Time: 13:40
 Photographer: Chad Gailey
 Description: Photo facing north at PZ-8 of
 Rudey filling out labels and tags
 for the ORC sample bottles.



Site: American Chemical Services, Inc.
 Proj. #: 46517/46518
 Roll: 2 Photo #:15
 Date: 09-09-99 Time: 15:10
 Photographer: Chad Gailey
 Description: Photo facing north at PZ-1 of
 Rudey taking groundwater
 parameter for ORC wells.



Site: American Chemical Services, Inc.

Proj. #: 46517/46518

Roll: 2 Photo #:16

Date: 09-09-99 Time: 15:30

Photographer: Chad Gailey

Description: Photo facing north at PZ-1 of
Rudey filling a VOA bottle for
natural attenuation.



Site: American Chemical Services, Inc.

Proj. #: 46517/46518

Roll: 2 Photo #:17

Date: 09-09-99 Time: 16:15

Photographer: Chad Gailey

Description: Photo facing northwest at PZ-3 of
Rudey fill a VOA bottle for
natural attenuation.



Site: American Chemical Services, Inc.

Proj. #: 46517/46518

Roll: 2 Photo #:18

Date: 09-09-99 Time: 16:41

Photographer: Chad Gailey

Description: Photo facing northwest at PZ-4 of
Rudey fill a VOA bottle for
natural attenuation.

(58)

Chad Soley 08/12/99

9:25

Picture #2 Facing South EAST
of Two Drums, Spills from instillation
of PZ6 on the North side of Tracks.
They are laying on there side.

There is a total of 5 Drums of
spoil remaining in this AREA.

9:35

Picture #3 Facing South of
Scott Sherman taking Parameter @
PZ5 on the North side of site
off site area across the RR Tracks.

10:05

Finish Sampling PZ5

10:17

Rocky setting up on PZ6. Depth
to water is 6.88 @ Superfine
Scott setting up on PZ7

10:25

Picture #4 Facing North @ PZ7 ORC
well, of Scott Purgung well & Taking
Parameters,

10:30

Picture #5 Facing North @ PZ6 of
Rocky taking Parameters.

10:58

Start Sampling ORC PZ6.

11:00

Picture #6 of Rocky filling voice
@ PZ6 Facing NW

11:10

Picture #7 of Scott filling voice
@ PZ7 Facing West

Chad

(69)

Chad Soley

08/12/99

well & Dredge

9:10

PZ5

DTW

7.04'

9:17

PZ6

6.88

10:21

PZ7

6.71

11:00

PZ1

9.46

12:45

PZ3

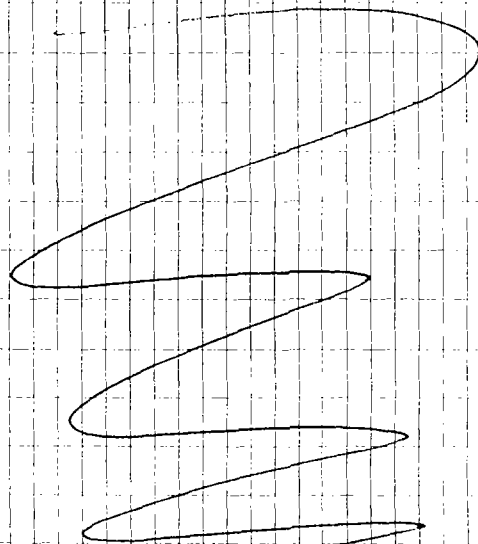
10.2

13:55

PZ4

13.21

13.85



Chad Soley

(70)

Chad Leaf 08/12/88

- 10:11 Rudy Finish Sample @ ~~PE1~~ P21
 11:11 Scott Finish Samples @ P27
 11:15 Rudy is setting up on P28
 while Scott is mob to South side
 of tract to the next four ore
 wells. I will follow Scott
 to watch him setup.
 11:30 Scott Drops off purple wire @
 water treatment Bldg
 12:01 ARRIVAL @ PZ1
 12:05 Scott is Firing up well PZ1, This will
 be a duplicate.
 12:10 Picture #8 Facing East @ PZ1
 of Scott taking Parameters.
 12:25 Rudy Finish Sample P28
 12:35 Picture #9 Facing N of Scott
 filling voa @ PZ1.
 Start Sampling
 12:40 Finish Sampling PZ1
 12:50 PZ3 Start Pumping, Rudy, he is
 having problem w the Probe and
 Parameters DO are going IN & O.
 13:00 Rudy goes to Recharge water
 Chaining meter.
 Scott is Decoding tubing
 Chad Leaf

(71)

Chad Leaf 08/12/88

- 13:30 Start Sample PZ3 - Rudy
 Picture #10 of Rudy Sample PZ3
 filling voa Facing N
 13:35 Finish Sample PZ3
 13:40 Rudy is Decoding tubing
 14:15 Picture #11 Rudy
 PZ4 Start time to
 Face NW
 14:25 Setup on PZ2
 14:26 Picture #12 Face South east of
 Scott Take DTM measurement
 @ PZ-2.
 14:30 MW had problem w one wire
 meter so I was Retire
 14:55 Picture #13 Facing Southwest
 of Rudy filling @ VOA @ PZ-2

Chad Leaf

(34)

Chad Saly 8/10/99

7:00

Arrival on site, (Weather

Sunny 58° according to NPR.

Not much of a Breeze.

7:08

Talk To Lee about Activities today.

- 1) ORC Sampling
 - 2) Iron work ARE tying Re-bar
 - 3) Check the Barrier wall inlets to Water Treatment Bldg
- PRESENT:

LEE CROSE MUCI Plant Eng

KEVIN TROSEL Rish Iron worker

JOSH HERRNER Rish Iron worker

TIM FIZER Rish Iron worker

JOHN ISCHINGES Rish Iron worker

GEORGE MORIKU FEENE

FRED ~~Reder~~

Ask Lee about the Piezometer in the East Side of the site that was missing, he said Pete Votaw would know best.

The Piezometers ARE 105 + 106 East Side of site near his office

Chad Saly

(35)

Chad Saly 8/10/99

7:20

Picture # 11 of the Iron works Placing & Tying Re-Bar for the Foundation of Sludge Tank. Far west

7:21

Picture # 12 of the Crane A TRENCH 35 feet across the Re-bar in to the Sludge tank area.

8:00

Rudy from MUCI showed up to do ORC Sampling, He is Preparing and Reconnecting Equipment

8:30

Talk to Jennifer Smith from MUCI about Piezometer 105 + 106 after Steve McKee brought up attention, that the Piezometers were grouted over during February or March Jennifer said they are flush now and are assumed still operational. She said there is a plan to assess them this sampling round out Monday 13 September 1999.

9:40

Moving to North Side of Tank for ORC Sample @ Rudy.

Chad Saly

(86)

Charles Taylor 09/01/87

- 8:50 STARTING w/ PZ 5 on the North Side of track 5 —
- 9:00 Picture #13 of Rudy taking Parameter @ PZ 5 Facing West Rudy has a concern of Negative D.O. Readings, this is the SECOND Round that has produced Negative D.O. Reading.
- 9:10 Started taking Samples, Parameters were within 10% Range. Although D.O. Remained Negative —
- 9:15 Back on Site to talk to Steve Mkrucka about the Parameters. —
- 9:30 Mob back to North side of track Rudy is talking with office to find out about the Negative readings of D.O.
- 9:40 Rudy talk to the tech from Field Environment, He is going to call Hariba instruments and call Ridge back in the mean time Rudy is going to recalibrate the Hariba. —
- 10:35 Rudy is still talking No Field Environment —
- 11:30 Rudy said He will order a new Helix D.O. meter

(87)

and come back Sunday, to take D.O. Readings.

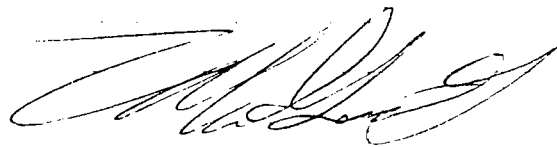
- 11:45 Rudy is sampling PZ 6, I am Return to WITS to check on the repair work.
- The repair crew has a confusion of phenomena of length that Dough and Tom are sorting out @ MW.
- 12:30 Iron work are being for Day
- 12:45 Rudy is sampling PZ 7
- 13:15 Finish Taking to Lee @ Pump about Pumps for Concrete, they are 50% done @ Rail work Return to Morocco
- 13:20 Rudy is taking Parameter @ PZ 8 This will be a Duplicate.
- 13:40 Picture #14 of Rudy still out here and finish sampling PZ 8. Facing North
- 13:50 Mob to WATER TREATMENT SICK TO Dump off Purge WATER + Decal Pump tubbing.

Charles Taylor

(88)

Chad L. Salyer October 1999

- 15:07 Taking Parameters @ PZ1
 15:10 Picture #15 Facing North of
 Reel Taking Parameters @
 PZ1, 6th's for Natural
 Appearance.
 15:30 Picture #16 Facing North of
 Reel Still a VOA Little for
 VOA's @ PZ1
 15:35 Finished Sampling WATER has
 A Decomposing material smell.
 15:47 MOB to PZ3
 16:11 Sampling PZ3
 16:15 Picture 17 of Reel Still a
 VOA @ PZ3, Facing NW
 16:40 Sampling PZ4
 16:41 Picture #18 of Reel Still a
 VOA @ PZ4 Facing
 N West
 16:45 Decon last time, ONE MORE well -
 PZ2
 17:00 PZ2 take Parameters
 17:20 Sampling PZ2 -
 17:40 Leaving Site -



(89)

Chad L. Salyer 09/14/99

- 6:22 Arrived on site, Weather
 Clear, Temp 55 According to NPR Radio.
 Activities today
 1) Quarterly Groundwater Sampling
 2) Water treatment expansion
 Continues
 3) Barrier Wall, Pump inspection
 AND maintenance.
 7:00 Doug & the Ryan Crew want to work
 Present for them is

EUGENE MORRIS	Ryan
KEVIN TROYER	Risch
TIM FIZES	Risch
DOUG GREGG	Rayan
GENE MEDSON	Risch
TROY ALLEN	Risch

 They are finishing forming and the
 Rock work.
 8:10 Sampling team showed up
 Present is
 Dawn Daughner
 Chad Smith
 8:20 Talk to Dawn about measuring



(90)

Cheryl LaFay 09/14/99
 (Continue) the Presentation 106 + 105

She knows nothing about them
 she referred me to Jennifer

Smiths

8:25⁰⁰ Talk to Jennifer Smith on
 the phone. She says she was
 unable to dig them up.
 She will talk to Pete Vot
 and call Men back

8:35 Jennifer called back and said
 she will have to get permission
 to excavate them out with
 Tom from ACS Health + Safety to
 get clearance

8:40 Damage Cheryl Finish Pulling
 A Field Blank & Picking
 the pump. They are preparing
 to sample the residential wells

8:41 Picture of Pump Feet inside the
 water treatment Bldg. of Dawn
 Labeling and Packing the Field
 Blank

9:30 Moving to the Residential wells
 on Reber Rd.

Cheryl LaFay

(91)

Cheryl LaFay 09/14/99
 9:42 Cheryl Smith is talking to

about sample the well @ Reber -
 Dawn just told me she has
 permission from all the residents except
 Don the 1st they are going back
 on the door to see if he is home.
 She also said Jennifer is getting
 permission from Tom to dig and
 the PZ 106 + 105 by John C

9:55 Arrived @ 1029 Reber Rd

10:10 STARTED Picking @ 1029 Reber =
 Peter C

10:12 Picture #3 of Dawn Taking
 Initial Parameters, Facing N @
 1029 Reber Rd.

10:25 1029 Cam DO Tms P/K Rel
 13630 818.6 29 5.7 73.3 131
 These are the final Parameters
 for 1029 Reber Rd.
 Start Sample

10:26 Picture #4 Facing N @ 1029 Reber
 of Dawn Picking A VOA
 for VOC ANALYSIS

Cheryl LaFay

(92)

Chuck Seely 09/14/99

10:37 Finished Sampling @ 1029 Rebar

10:45 Arrived @ 1009 Rebar
House of James Garon —10:55 STARTED Picking up AND taking
Parameters10:56 Picture #5 Survey NE @
1009 Rebar, of Chuck Smith taking
parameters with the Hydro Lab. —11:10 Sample Bottles are labeled this is
a duplicate AND need to sample
T° DO SpC Turb PH ORP

11:15 0.12 7.210 0.3 7.12 112

Final Parameters for 1009 —

Picture #6 Survey NE @ 1009 Rebar
of Chuck Smith taking a new bottle.11:35 Arrived @ 1033 Rebar Sample
Front Street as to the location
where Piquet Creek has MCC location

11:40 Start Piquet @ 1033 Rebar

11:47 Picture #7 Survey SE @
1033 Rebar Rebar of Piquet taking
Parameters, and getting out labels
w/ Chuck Smith12:12 Temp DO Con Turb PH Rebar
12:30 0 814.4 00 7.36 120

Chuck Seely

(93)

Chuck Seely 09/14/99

12:14 Start Sampling

12:15 Picture #8 Survey East using
the Back Room @ 1033 Rebar
Rebar of Smith, Chuck Seely
Sample bottle.12:40 Finished Sampling 1033 Rebar
went to lunch13:10 Back home lunch Piquet & Chuck
Smith had to get SAFETY
Training to go on site today
out the P-106 + 105 by
Tom.13:30 The Concrete Crew is working
steadily, no apparent problems.

14:00 Prep work Sample @ 1009 Rebar Rebar

14:30 Picture #9 of Piquet Sill out labels
for Residual Sample 1007 Survey
North14:40 Temp DO SpC Turb PH ORP
15:30 36 686.3 6.7 7.46 6.8

Final Parameters for 1007 Rebar Rebar

15:50 Picture #10 Survey South East @
1007 Rebar of Chuck Smith
Sill Poly for Mottale

Chuck Seely

(94) Chas & Sally on 14/07

15:00 Finished @ 1007 Reeler Rd
moving to next Reservoir

15:55 This was a MS/MSD Sample
Return to WTB, To get more
Cynical Bottles. Look out
back and there was NO
ON OVERSEER. Constantly while
Two fish work were working
on the mat.

John was here at 14:00
After that I was overseeing
from Carbon Sample. I returned
* 15:40 TO INFORM STEVE OF
The QAPP or M2, They
ARE WORKING OFF A NEW QAPP
I DID NOT Remember Review
it OR getting a copy, I WAS
WONDERING if it was approved.

15:55 Called Steve, he said he would
look into it.

16:10 Iron workers ARE finish
the inner Ring to the Concrete
Pad

Chas & Sally

(95) Chas & Sally on 14/07

16:23 Arrived @ 1002 Reeler Rd
this is the last Reservoir Sample

16:33 Spatial & Parametric @ 1002
Reeler

16:40 Final Parameters @ 1002 Reeler
Temp DO Sp. Turb pH DOB
13.75 0.14 767.3 101 74.3 90

16:45 Pick up 11th Feas. SW @ 1002
Reeler Rd. of Dennis Lohy
VNA bottles.

16:47 Pick up 12th Feas. SW @ 1002
Reeler Rd. of Dennis Lohy
S-Volatil, Shaker bottles

16:50 Finish Sample. DO2 Reeler
Return to WTB.

17:10 Iron work ARE leaving and
Dawn & Chas Smith are picking
Coolers, Return tomorrow to complete
sampling.

Chas & Sally

(96) Chael Lafer on 1/5/77
 6:55 ARRIVED ON SITE, Weather
 Sunny Clear, Temp Low 50s
 NO DREF 201
 PRESENT is the following:
 Chael Smith
 Dawn Dough
 Lee Cross
 7:32 ARRIVE at the site of MW-48
 this well is on the North side
 of the TRACKS.
 8:05 Picture #13 Dawn, Sm (a)
 MW 48 of Chael Smith
 & Dawn installing the pump
 into the well.
 8:15 START Pumping well
 water has Sp. at MW 48
 8:25 measured flow rate mercury.
 9:00 Picture #14 Dawn & NW (a) MW-
 48 of Dawn filling a VOA
 bottle.
 9:05 Finished Sampling @ MW-48.
 9:12 Dawn is Decoring the
 Pump and tubing for Next well.
 9:30 Dawn & Chael are remeasuring
 ORS water Level on the North side
 Chael Lafer

(97) Chael Lafer on 1/5/77
 9:50 Arrived @ MW 49
 10:07 Picture #15 Dawn, NW (a)
 MW 49 of Chael Smith
 measuring Graph Volume
 Note Dawn is 300ml increments
 Temp DO Sp Tub PH Bolox
 10:18 17.85 OAT 69.7 6.7 6.85 6.9
 Sample parameters for MW 49
 10:23 Picture #16 Dawn NW of Dawn
 filling a VOA bottle @ MW 48
 10:25 Sample Samples
 10:40 Back @ the WTP, Dawn & Chael
 Smith are Decoring Pump & Chael
 into the Lab. It is in the
 Carolina mud Huncan, is
 Close all Air Holes to and
 from the East Crest.
 12:30 MW 6 to MW 10C
 12:35 Arrive MW 10C, well has
 AN Ocler.
 12:45 Picture #17 of Dawn & Chael
 Smith installing the well at MW 10C.
 facing West to NW
 Chael Lafer

(98)

Chael Lark 09/15/97

12:55

Dawn is measuring
and stabilize while pouring the
well MW-10C

13:13

Temp DO SpC Turb pH ORP
14.33 CoRS 1667 8.2 708 148
Serial Parameter for MW-10C —

13:17

Picture #18 Facing NW @ mouth
of Downs Sampling facility a VOT
bottle.

13:20

Finished Sampling @ MW-10C —

13:25

Chael Smith and Dawn ARE
decommissioning the pump for the next
well MW-9R

13:45

Dawn & Chael Smith are going to
get ice; gas for the generator —
Setting up on MW-9R

14:05

Picture #19 Facing N @ MW-9R
of Chael Smith Dawn installing
Pump for ground water sampling

14:20

Purge MW-9R, measuring flow
Dawn, water is grey with odor —

14:44

Temp DO SpC Turb pH ORP
13.55 CoRS 95% 42 701 157
Serial Parameter for MW-9R

Chael Lark

(99)

Chael Lark 09/15/97

14:47

Picture #20 Facing NE @ mouth
of Chael Smith Fila VOT Bottle
Dawn, Dawn maintains a steady
level

16:45

P106 = 3.81 inside
P105 = 7.35 outside

17:00

Lee informed me Do to
Pump Problem the system
is not running full capacity
Note Dawn & Chael Did not
Collect a Cynide Sample @
1033 Reel id.

Chael Lark